



SEQUENCE LISTING

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<120> Diagnostics and Therapy of Epstein-Barr Virus in
Autoimmune Disorders

<130> OMRF 161 CIP

<140> 09/500,904

<141> 2000-02-09

<160> 113

<170> PatentIn Ver. 2.1

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virus Nuclear Antigen-1 Protein

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virus Nuclear Antigen-1 Protein

<400> 2

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<223> Description of Artificial Sequence: Epstein-Barr
virus Nuclear Antigen-1 Protein

<400> 3

Arg Gly Arg Gly Arg Glu Lys
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Pro Pro Pro Gly Met Arg Pro Pro
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Epstein-Barr virus Nuclear Antigen-1

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Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
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Gly Ala Gly Ala Gly Ala Gly Ala
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<210> 8
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Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg
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Gly Arg Gly Arg Gly Gly Pro Arg Arg Arg
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Lys Ile Gly Phe Pro His Ile
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Ala Leu Ile Gln Arg Pro Pro

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Val Pro Leu Thr Val Leu Leu

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Lys Phe Leu Ala Pro Leu Gln

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<400> 21

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<400> 22

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from Epstein-Barr virus Nuclear Antigen-1

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Gln Lys Arg Pro
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from Epstein-Barr virus Nuclear Antigen-1

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Arg Pro Gln Lys Arg Pro Ser Cys
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<210> 27
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from Epstein-Barr virus Nuclear Antigen-1

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Gln Lys Arg Pro Ser Cys Ile Gly Cys Lys Gly Thr His Gly Gly Thr
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Gly

<210> 28

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from Epstein-Barr virus Nuclear Antigen-1

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Gly Thr Gly Ala Gly Ala Gly Ala Gly Gly
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<210> 29

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from Epstein-Barr virus Nuclear Antigen-1

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Gly Gly Arg Gly Arg Gly Gly Ser Gly Gly Arg Gly Arg Gly Gly Ser
1 5 10 15

Gly Gly Arg Gly Arg Gly Gly Ser Gly Gly Arg Arg Gly Arg Gly Arg
20 25 30

Glu Arg Ala Arg Gly Gly Ser Arg Glu Arg Ala Arg Gly Arg Gly Arg
35 40 45

Gly Arg Gly Glu Lys Arg Pro Arg Ser Pro Ser
50 55

<210> 30

<211> 8

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from Epstein-Barr virus Nuclear Antigen-1

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<210> 31

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from Epstein-Barr virus Nuclear Antigen-1

<400> 31

Gln Ser Ser Ser Ser Gly Ser Pro Pro Arg Arg Pro Pro Pro Gly Arg
1 5 10 15

<210> 32

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<223> Description of Artificial Sequence: Octapeptide
from Epstein-Barr virus Nuclear Antigen-1

<400> 32

Arg Pro Pro Pro Gly Arg Arg Pro Phe Phe His Pro Val Gly Glu Ala
1 5 10 15

Asp Tyr Phe Glu Tyr His Gln Glu Gly Gly Pro Asp Gly Glu Pro
20 25 30

<210> 33

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from Epstein-Barr virus Nuclear Antigen-1

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<210> 34

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from Epstein-Barr virus Nuclear Antigen-1

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Pro Gly Ala Ile Glu Gln Gly Pro Ala
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<210> 35

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from Epstein-Barr virus Nuclear Antigen-1

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Asp Asp Pro Gly Glu Gly Pro Ser Thr Gly Pro
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<210> 36

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from Epstein-Barr virus Nuclear Antigen-1

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Gly Pro Ser Thr Gly Pro Arg Gly Gln Gly
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Gly Gln Gly Asp Gly Gly Arg Arg Lys
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from Epstein-Barr virus Nuclear Antigen-1

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Asp Gly Gly Arg Arg Lys Lys Gly Gly Trp Phe Gly Lys His Arg
1 5 10 15

<210> 39
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from Epstein-Barr virus Nuclear Antigen-1

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Gly Lys His Arg Gly Gln Gly Gly Ser Asn Pro Lys
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from Epstein-Barr virus Nuclear Antigen-1

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Gly Gly Ser Asn Pro Lys Phe Glu Asn Ile Ala
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Arg Ser His Val Glu Arg Thr Thr Asp
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from Epstein-Barr virus Nuclear Antigen-1

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Arg Thr Thr Asp Glu Gly Thr Trp Val Ala
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<210> 43

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from Epstein-Barr virus Nuclear Antigen-1

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Gly Val Phe Val Tyr Gly Gly Ser
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<210> 44
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Phe Val Tyr Gly Gly Ser Lys Thr
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<210> 45
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from Epstein-Barr virus Nuclear Antigen-1

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Tyr Gly Gly Ser Lys Thr Ser Leu Tyr Asn Leu
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<210> 46
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from Epstein-Barr virus Nuclear Antigen-1

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Gly Met Ala Pro Gly Pro Gly Pro
1 5

<210> 47
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from Epstein-Barr virus Nuclear Antigen-1

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Pro Gln Pro Gly Pro Leu Arg Glu
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from Epstein-Barr virus Nuclear Antigen-1

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Cys Asn Ile Arg Val Thr Val Cys
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from Epstein-Barr virus Nuclear Antigen-1

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Arg Val Thr Val Cys Ser Phe Asp Asp Gly
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from Epstein-Barr virus Nuclear Antigen-1

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1 5 10

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Gln Leu Pro Leu Ser Leu Val
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<210> 66

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<210> 67

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Ser Pro Ile Ser Thr Leu Ala
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<210> 68

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Ser Pro Leu Ser Ser Leu Thr
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<210> 70
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<210> 71
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<210> 72
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<210> 73
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<210> 74
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<210> 75
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<210> 76
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Lys Ile Gly Phe Pro Ile Leu

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<210> 77

<211> 7

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<400> 77

Tyr Leu Thr Pro Leu Gln Ile

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<210> 78

<211> 7

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Ala Phe Leu Pro Thr Leu Gln

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<210> 79

<211> 7

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Ser Leu Phe Pro Trp Gln Arg

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<210> 80
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<400> 80
Xaa Phe Leu Xaa Pro Leu Gln
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<210> 81
<211> 7
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<220>
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<400> 81
Val Pro Arg Pro Leu Asp Ile
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<210> 82
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Asn His Ser Leu Pro Leu Pro
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<210> 83
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Cys Xaa Leu Ser Val Leu Lys
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<210> 84
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<400> 84
Met Pro Tyr Met Met Tyr Gln
1 5

<210> 85
<211> 7
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<400> 85
Ala Gly Arg Leu Gln Arg Thr
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<210> 86
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<223> XAA at position 1 represents any amino acid

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<221> VARIANT

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<223> XAA at position 2 represents any amino acid

<400> 86

Xaa Xaa Ile Gln Arg Pro Arg

1

5

<210> 87

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Phage Peptide

<400> 87

Arg Gln Pro Cys Tyr Ala Pro

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5

<210> 88

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Phage Peptide

<400> 88

Gln Pro Thr Tyr Pro Thr Pro

1

5

<210> 89

<211> 7

<212> PRT
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<400> 89
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<210> 90
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<220>
<223> Description of Artificial Sequence: Phage Peptide

<400> 90
Ile Leu Pro Leu Arg Gly
1 5

<210> 91
<211> 7
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<221> VARIANT

<222> (7)

<223> Xaa at position 7 represents any amino acid

<400> 91

Xaa Xaa Leu Ala Pro Pro Xaa

1

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<210> 92

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Phage Peptide

<400> 92

Ala Lys Pro Phe Lys Thr Lys

1

5

<210> 93

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Phage Peptide

<400> 93

Met Pro Asn Pro Val Ser Gly

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5

<210> 94

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Phage peptide

<400> 94

His Pro His His Leu Pro Pro

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<210> 95
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<210> 96
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<220>
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<400> 96
Ser Pro Pro Glu Trp Leu Lys Gly
1 5

<210> 97
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<220>
<223> Description of Artificial Sequence: Peptide

<400> 97
Gly Pro Pro Pro Met Arg Pro Pro
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<210> 98
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<220>
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Epstein-Barr virus

<400> 98

Gly Pro Gln Arg Arg Gly Gly Asp Asn His Gly Arg Gly Arg Gly Arg Gly Arg
1 5 10 15

Gly Arg Gly Arg Gly Gly Arg Pro Gly
20 25

<210> 99

<211> 13

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<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 99

Gly Thr Gly Ala Gly Ala Gly Ala Arg Gly Arg Gly Gly
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<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 100

Ser Gly Gly Arg Gly Arg Gly Gly
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<210> 101

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<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 101

Arg Gly Gly Ser Gly Gly Arg Arg Gly Arg Gly Arg
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<210> 102
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<220>
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Epstein-Barr virus

<400> 102
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<210> 103
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<220>
<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 103
Ser Ser Ser Ser Gly Ser Pro Pro Arg Arg Pro Pro Pro Gly Arg
1 5 10 15

<210> 104
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 104
Arg Pro Pro Pro Gly Arg Arg Pro Phe Phe His Pro Val Gly Glu Ala
1 5 10 15

Asp Tyr Phe Glu Tyr His Gln Glu Gly
20 25

<210> 105

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 105
Gly Pro Ser Thr Gly Pro Arg Gly
1 5

<210> 106
<211> 10
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<220>
<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 106
Gly Lys His Arg Gly Gln Gly Gly Ser Asn
1 5 10

<210> 107
<211> 8
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 107
Gly Gln Gly Gly Ser Asn Pro Lys
1 5

<210> 108
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide from

Epstein-Barr virus

<400> 108

Asn Pro Lys Phe Glu Asn Ile Ala
1 5

<210> 109

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 109

Arg Ser His Val Glu Arg Thr Thr
1 5

<210> 110

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 110

Val Phe Val Tyr Gly Gly Ser Lys Thr
1 5

<210> 111

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide from
Epstein-Barr virus

<400> 111

Gly Ser Lys Thr Ser Leu Tyr Asn Leu
1 5

<210> 112
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Phage Peptides

<400> 112
Ala Leu Ile Leu Arg Pro Pro
1 5

<210> 113
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Phage Peptides

<400> 113
Ala Met Lys Leu Lys Leu Pro Pro
1 5